EVEN SEMESTER/ANNUAL BACK PAPER EXAMINATION, AUGUST- 2025

Course Name: - B.Tech (CE/ECE/EE/ME) Sem: - II

Paper Name: - Manufacturing Process Paper Code: - NES 205

Time - 3 Hrs + 20 minutes per hour extra time for V.I. & examinees with writer. Max Marks-70

Instructions:

- The question paper consists of three sections namely A, B, C. All sections are compulsory.
- Section A- Each question carries **3 marks. All questions are compulsory**.
- Section B- Answer any **5 out of 7** given questions. Each question carries **7 marks**.
- Section C- Answer any **2 out of 3** given questions. Each question carries **10 marks**.

Section – A

Objective Questions

1. Answer all the following questions. **5x3 =15**

i) The strength of steel increases with increasing carbon %age in the range-
(a) 0–0.8% (b) 0.8–1.2% (c) 1.2–2% (d) all of these ranges

ii) Fuel used in a cupola consists of-
(a) steam coal (b) furnace oil (c) electricity (d) hard coke

iii) A shaper cannot produce-
(a) a horizontal plane surface (b) a vertical plane surface
(c) an inclined vertical surface (d) a cylindrical surface.

iv) The Lathe carriage serves the following purpose of the tool
(a) Guiding (b) Feeding (c) Supporting (d) All of the above

v) External threads can be produced by means of
(a) Taps (b) Dies (c) Lathe machine (d) All of the above

Section – B

Short Answer Questions

2. Answer any five of the following questions. **5x7=35**

i. What are the properties of metals and alloys that make them suitable for manufacturing?
ii. What are the major roles of materials, processes, and systems in manufacturing?
iii. Describe common casting defects.
iv. Describe the types and uses of rolling mills.
v. Brief different types of welding joints and positions.
vi. Explain the applications of gas welding in industry.
vii. Differentiate between hot and cold working & hot and cold extrusion.

Section – C

Descriptive Questions

3. Answer any two of the following question. **2x10=20**

i) Describe the construction and working of a lathe machine with neat sketch.
ii) Discuss different types of patterns and their allowances with suitable examples.
iii) What is the significance of cold drawing in manufacturing? What are the advantages of forging over casting?

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